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| 10/799,215 | 03/11/2004 | Kazuomi Oishi | CFA00096US | 7413 |

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CANON U.S.A. INC. INTELLECTUAL PROPERTY DIVISION
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IRVINE, CA 92618-3731

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| EXAMINER |
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TURCHEN, JAMES R

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| ART UNIT | PAPER NUMBER |
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2139

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06/05/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/799,215

Applicant(s)

OISHI, KAZUOMI

Examiner

James Turchen

Art Unit

2139

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 07/11/2005.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Claims 1-18 are pending.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by DHCP for IPv6.

Regarding claim 1:

DHCP for IPv6 discloses a method for limiting the use of a network address, the method comprising the steps of:

acquiring identification data specific to a device connected to the network (Section 3.3, DHCP server receives a DHCP request with the IP address desired by the client); and

sending a message preventing the device from using a network address generated based on the identification data (Section 3.4, DHCP reply message contains a status code that tells the client if that request is succeeded, or else the reason for the failure).

Regarding claim 3:

DHCP for IPv6 discloses the method according to claim 1, wherein the message in the sending step indicates that the network address is duplicated (It is inherent in DHCP that a reason for not allowing an address is given to the client; see RFC 2131 pages 12-16).

Claims 10 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Coley et al. (US 5,826,014; herein Coley).

Regarding claim 10:

Coley discloses a method for limiting data transfer, the method comprising the steps of:

detecting that a device connected to a network sends data containing a network address generated based on an identifier specific to the device (Figure 4A, step 414 checks if the source address (address generated based on the address (identifier) specific to the device); and

preventing the data from being transferred (Figure 4A, step 416 deny access).

Regarding claim 12:

Coley discloses the method according to claim 10, wherein, in the preventing step, data received from a first network is prevented from being transferred to a second network (Figure 2, firewall 210 is located between computer network 202 and internal network 214).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over DHCP for IPv6 as applied to claim 1 above, and further in view of RFC 2373.

DHCP for IPv6 discloses the method according to claim 1, wherein the identification data acquired in the acquiring step is an address desired by client. (Section 3.3, DHCP server receives a DHCP request with the IP address desired by the client). DHCP for IPv6 does not disclose using the data-link layer identifier of a network interface of the device. RFC 2373 discloses using an interface identifier that is required to be unique on that link. RFC 2373 discloses using a data-link layer identifier (MAC address) for the interface identifier because MAC addresses are supposedly unique allowing for each client to connect to the network with a unique ID. It would have been obvious to one of ordinary skill in the art at the time of invention to combine the method of DHCP for IPv6 with the identifier of RFC 2373 in order to ensure that interface identifier will be unique.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Coley as applied to claim 10 above, and further in view of RFC 2373.

Coley discloses the method according to claim 10, but does not disclose the identifier is a data-link-layer identifier of a network interface of the device. RFC 2373 discloses using an interface identifier that is required to be unique on that link. RFC 2373 discloses using a data-link layer identifier (MAC address) for the interface identifier because MAC addresses are supposedly unique allowing for each client to

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connect to the network with a unique ID. It would have been obvious to one of ordinary skill in the art at the time of invention to modify the method of Coley to support IPv6 and the use of interface identifiers in order to keep up to date with newer protocols.

Regarding claims 4-9:

Claims 4-6 and 7-9 are the computer-executable process and apparatus of method claims 1-3 and are therefore rejected under the same reasoning as claims 1-3.

Regarding claims 13-18:

Claims 13-15 and 16-18 are the computer-executable process and apparatus of method claims 10-12 and are therefore rejected under the same reasoning as claims 10-12.

Conclusion


Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Turchen whose telephone number is 571-270-1378. The examiner can normally be reached on MTWRF 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571)272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JRT


TAGHI ARANI
PRIMARY EXAMINER
5/26/07